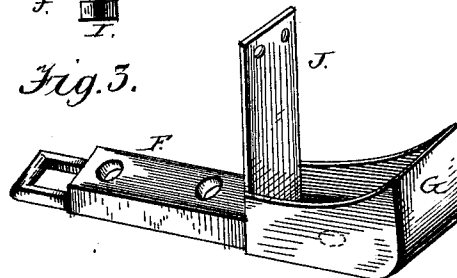
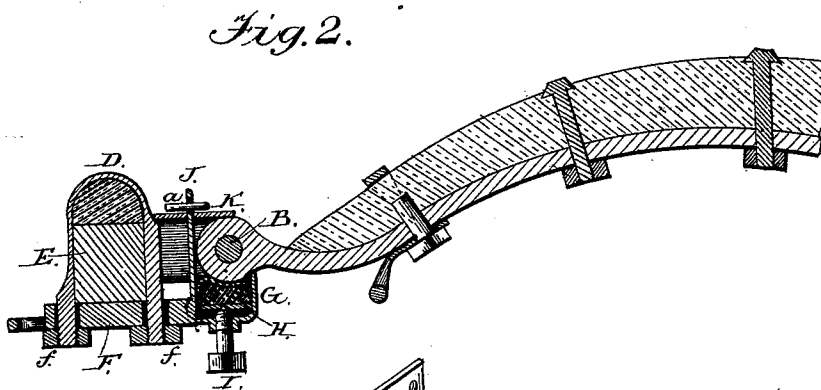
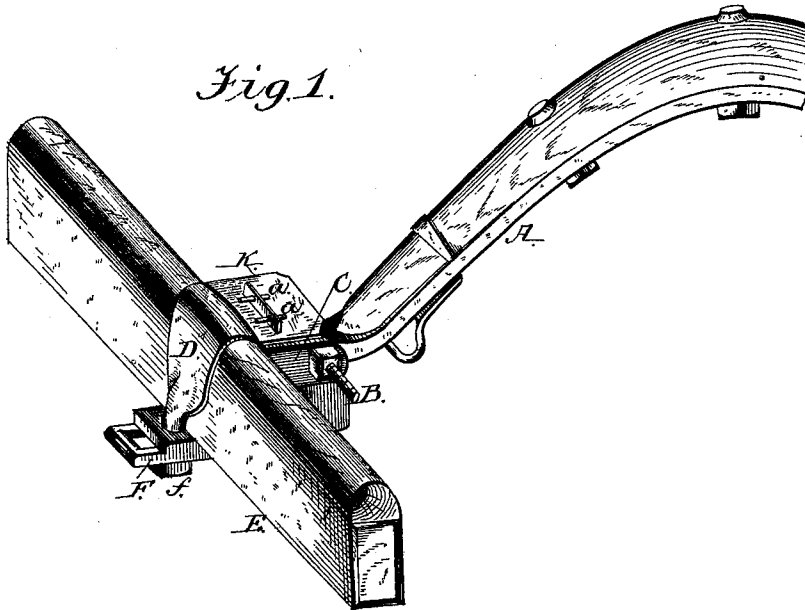


A. P. JOHE.
Thill-Coupling.

No. 218,675.

Patented Aug. 19, 1879.



Witnesses;
J. Walter Fowler.
W. H. Morse

Inventor;
Andrew P. Johe
per Atty
A. H. Evans & Co.

UNITED STATES PATENT OFFICE

ANDREW P. JOHE, OF WITMER P. O., PENNSYLVANIA.

IMPROVEMENT IN THILL-COUPPLINGS.

Specification forming part of Letters Patent No. **218,675**, dated August 19, 1879; application filed June 27, 1879.

To all whom it may concern:

Be it known that I, ANDREW P. JOHE, of Witmer P. O., Lancaster county, Pennsylvania, have invented a new and useful Improvement in Thill-Couplings; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a thill with my improvements attached. Fig. 2 is a longitudinal section of same. Fig. 3 is a detail, to be referred to.

My invention relates to that class of thill-couplings in which the bolt is kept from rattling by means of a cushion; and it consists of a combination of devices hereinafter explained and claimed.

In the drawings, A represents the thill-iron, held in place by the bolt B, passing through the thill-iron, and the jaws C. The clip D passes over the axle E, and is secured beneath the axle to the plate F by the nuts *f f*. On the forward end of the plate F is formed the cup G, in which is placed the cushion H, beneath the thill-iron, as shown in Fig. 2. This cushion is made of rubber or other suitable elastic material, and is provided with a metal plate or washer at top and bottom to prevent wear of the cushion. The upper surface is curved to fit the curvature of the lower thill-iron. In the bottom of cup G is an opening with an internal female screw to receive the screw I, for tightening the cushion against the

bolt B, and compensating for any wear upon the bolt. It is evident that by this means of raising and tightening the cushion the bolt can be used as long as sufficient metal remains to afford the required strength.

Rising from the rear of the cup G, and cast in the same piece, is the guard-plate J, extending to a point sufficiently above a level of the jaws C and the end of the thill to receive the cover K, as shown in Fig. 1. This cover is made of any suitable material, and is slotted to slip over the top of the guard-plate J, where it is secured by the pins *a a*, or other convenient means.

By this construction of the guard-plate and cover the thill-iron is protected against the mud or dust which would otherwise enter the cup G and cause an unnecessary wear or grinding of the thill and its connections.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The plate F, provided with the cup G, having closed sides and guard J, and the slotted cover or shield K, in combination with the thill-iron A, the cushion H, screw I, and bolt B, all constructed and arranged substantially as and for the purpose herein shown and described.

ANDREW P. JOHE.

Witnesses:

W. F. MORSELL,
J. L. BUSKETT.